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Patent Abstracts of Japan

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63116321

APPLICANT: CANON INC;

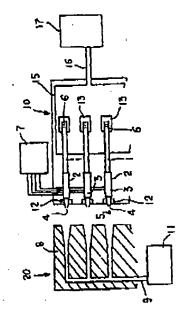
INVENTOR : AOKI ATSUSHI;

INT.CL.

B41J 3/04 B41J 3/04

TITLE

INK JET RECORDER



PURPOSE: To easily remove bubbles in a head to stabilize an ink discharge and form dots with a superior gradation, by heating an ink jet head and an ink in the head by heaters provided in the vicinity of the ink jet head immediately before or after the actuation of a pump.

CONSTITUTION: When bubbles are present in an ink in a head 10, heaters 12 in the vicinity of tips of nozzles 1 and heaters 13 in the vicinity of filters on rear ends of the nozzles 1 are turned ON simultaneously with the start of sucking the ink in the head 10 by a pressure reducing pump 11, whereby the ink thereabouts is heated. Then, when the suction of the ink is almost completed, the heaters 12, 13 are turned OFF to stop heating. By this operation, only the ink around such a part having a large fluid resistance as the vicinities of orifices 4 and the filters 6 is heated, the viscosity of the ink is reduced, the fluid resistance is lowered, and the ink easily flows from a sub-ink tank 15 into the nozzles 1. At the same time, the bubbles in the nozzles 1 are discharged from the orifices 4 outside the head 10.

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 04 00 9129

This annex lists the patent family members relating to the patent documents died in the above-mentioned European scarch report. The members are as contained in the European Patent Office EDP life on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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